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8 April 1969

MEMORANDUM FOR: See Distribution

SUBJECT : Revisions to the Project Officers Manual

1. The Project Officers Manual has been regularly updated prior to the beginning of each fiscal year to reflect changes in policies, procedures, and practices. Particular attention is given to the list of Scientific and Technical Fields which are useful in providing insight to the technical content of the R&D program. Because the lists which have been used are generally compatible with similar lists used throughout the government, it is easy to respond to inquiries about the distribution of technical effort. While any list that combines scientific and engineering fields must be something of a conglomeration, much of the initial redundancy with elements used in the R&D program plan and with operational applications has been eliminated, and I have marked the attached list to identify additional items which may be considered for deletion beginning FY 70. These items have either seen little or no use in the past year, or the engineering and technical efforts to which they pertain can be adequately described by better field descriptors. The continuing objective is not just to reduce the list, but rather to improve its usefulness and accuracy in describing the technical and engineering areas of effort associated with the Agency's programs. For this reason any new technologies or new technical fields in which there is either a substantial current effort or an intended effort should be added to the list.

2. Recommended changes in all areas of the Project Officers Manual are solicited so these can be assembled, reviewed with the appropriate offices, and effected by the beginning of FY 70.

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Special Assistant to the
R&D Coordinator

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Attachment:

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Scientific and Technical Fields

(Item 2E, Glossary)

AERONAUTICS

Aerodynamics
Aeronautics
Aircraft
Avionics
Balloons
Helicopters
4 Parachutes

ASTRONOMY AND ASTRO- PHYSICS

Astronomy and Astro-
physics
Radio Astronomy
Solar Physics

ATMOSPHERIC SCIENCE

Atmospheric Science
Climatology
Cloud Physics
Ionosphere
Meteorology
Weather
3 ~~Weather Modification~~

BEHAVIORAL & SOCIAL SCIENCE

Human Factors Engineering
Linguistics
3 ~~Man-machine Interaction~~
Personnel Selection, Training
and Evaluation
Psychology
Sociology

BIOLOGICAL & MEDICAL

Aerospace Medicine
Animal Studies
Audiology

Bacteriology
Biochemistry
Bioengineering
Biology
Bionics
Biophysics
Electrophysiology
1 ~~Escape, Rescue and Survival~~
4 ~~Life Support Systems~~
Microbiology
Medicine
Nutrition
Pharmacology
Veterinary Science
Vision
Zoology

CHEMISTRY

Analytical Chemistry
Biochemistry
Chemical Engineering
Chemistry
Inks
Inorganic Chemistry
Mass Spectroscopy
Organic Chemistry
Physical Chemistry
Radio & Radiation Chemistry

COMMUNICATIONS

Communications
1, 2 ~~Clandestine Radio Communi-~~
~~cations~~
Command/Control
2 ~~Communications Security~~
1, 2 ~~Staff Communications~~

COMPUTERS & APPLICATIONS

Audio Analysis
Automation
Computer Science

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Computers and Applications
Cybernetics
Data Processing
Display Systems
Documentation
Graphic Analysis
Information Storage/Retrieval
4 ~~Machine Translation~~
Pattern Recognition
Waveform Analysis

EARTH SCIENCES & OCEANOGRAPHY

Aquatic Sciences
Cartography
Earth Sciences
Geodesy
Geography
Geology
Geophysics
Oceanography
Seismology
Soil Science

ELECTRONICS & ELECTRICAL ENGINEERING

Antennas
Audio Devices
Audio Countermeasures
Direction Finding
Electrical Engineering
Electron Devices
Electronics
Electronic Countermeasures
Lasers
3 ~~Magnetism~~
Masers
Microwaves
Microelectronics
Radar
Radio Engineering
Radio Propagation
Telemetry

Television
Transducers

ENERGY CONVERSION

Energy Conversion
Energy Sources

MATERIALS

Adhesives
Alloys
Ceramics
Coatings
Fibers
Materials
Metallurgy
Paper
Plastics
Textiles
Wire and Cable

MATHEMATICS

Mathematics
Statistics
Operations Research

MECHANICAL, INDUSTRIAL CIVIL & MARINE ENGINEERING

Air Conditioning
Architecture
Civil Engineering
Illumination
Industrial Engineering
Marine Engineering
Mechanical Engineering

METHODS AND EQUIPMENT

Instrumentation
Measuring Devices
Operations Research
Recording Devices
Reprography

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System Analysis and Design
Testing

4 ~~MISSILE TECHNOLOGY~~

- 4 ~~Missile Launching & GSE~~
- 4 ~~Missiles~~

NAVIGATION

Guidance and Control System
Navigation

NUCLEAR SCIENCE & TECHNOLOGY

- 3 ~~Energy Conversion~~
- Isotopes
- Nuclear Science & Technology
- Radiation

ORDNANCE

Ammunition
Ballistics
Guns
Explosives
Ordnance

PHOTO SCIENCE AND MAPPING

Aerial Photography
Cameras
Cartography
Chromatography
Cinematography
Geodesy
Geography
Mapping
Optical Engineering
Photogrammetry
Photography & Photo Processes
Photo Interpretation
Viewing Systems

PHYSICS

Acoustics
Crystallography
Fluid Mechanics
Holography
Infrared
Magnetism
Magnetohydrodynamics
Optics
Physics
Plasma Physics
Radiation
Spectroscopy
Thermodynamics
Ultraviolet
X-Rays

PROPULSION AND FUELS

Atomic Energy
Combustion
Fuels
Propellants and Propulsion
Reciprocating Engines

SPACE TECHNOLOGY

- Aerospace Science
- 4 ~~Launch Vehicles and GSE~~
- 4 ~~Life Support Systems~~
- Recovery Systems
- Spacecraft
- Spacecraft Trajectories

- 1 - Not a Scientific/Technical Field
- 2 - Redundant with Program Planning elements
- 3 - Redundant or duplicative of other descriptors
- 4 - Little use

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